Nonparametric UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	8/2/2013 11:59:57 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

Aroclor

General Statistics

Total Number of Observations	63	Number of Distinct Observations	50
Number of Detects	19	Number of Non-Detects	44
Number of Distinct Detects	18	Number of Distinct Non-Detects	32
Minimum Detect	4.95	Minimum Non-Detect	1.3
Maximum Detect	20.45	Maximum Non-Detect	18
Variance Detects	17.2	Percent Non-Detects	69.84%
Mean Detects	9.097	SD Detects	4.147
Median Detects	7.7	CV Detects	0.456
Skewness Detects	1.514	Kurtosis Detects	1.899
Mean of Logged Detects	2.127	SD of Logged Detects	0.395

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	4.248	Standard Error of Mean	0.601
SD	4.257	95% KM (BCA) UCL	5.23
95% KM (t) UCL	5.251	95% KM (Percentile Bootstrap) UCL	5.261
95% KM (z) UCL	5.236	95% KM Bootstrap t UCL	5.36
90% KM Chebyshev UCL	6.051	95% KM Chebyshev UCL	6.867
97.5% KM Chebyshev UCL	8.001	99% KM Chebyshev UCL	10.23

Suggested UCL to Use

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia